ENTERED

RAW SEQUENCE LISTING   DATE: 07/05/2002
PATENT APPLICATION: **US/09/890,811B**   TIME: 15:37:23

Input Set : **N:\Crf3\06122002\I890811A.raw**
Output Set: **N:\CRF3\07052002\I890811B.raw**

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 1 <110> APPLICANT: Zhu, Qun
 2       Famodu, Omolayo O.
 3 <120> TITLE OF INVENTION: SPF1-Related Transcription Factors
 4 <130> FILE REFERENCE: BB1436 PCT
 5 <140> CURRENT APPLICATION NUMBER: US/09/890,811B
 6 <141> CURRENT FILING DATE: 2002-05-07
 7 <150> PRIOR APPLICATION NUMBER: 60/174325
 8 <151> PRIOR FILING DATE: 2000-01-04
 9 <160> NUMBER OF SEQ ID NOS: 14
10 <170> SOFTWARE: Microsoft Office 97
12 <210> SEQ ID NO: 1
13 <211> LENGTH: 512
14 <212> TYPE: DNA
15 <213> ORGANISM: Zea mays
16 <220> FEATURE:
17 <221> NAME/KEY: unsure
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19 <223> OTHER INFORMATION: n=a,c,g or t
20 <220> FEATURE:
21 <221> NAME/KEY: unsure
22 <222> LOCATION: (387)
23 <223> OTHER INFORMATION: n=a,c,g or t
24 <220> FEATURE:
25 <221> NAME/KEY: unsure
26 <222> LOCATION: (405)
27 <223> OTHER INFORMATION: n=a,c,g or t
28 <220> FEATURE:
29 <221> NAME/KEY: unsure
30 <222> LOCATION: (408)
31 <223> OTHER INFORMATION: n=a,c,g or t
32 <220> FEATURE:
33 <221> NAME/KEY: unsure
34 <222> LOCATION: (445)
35 <223> OTHER INFORMATION: n=a,c,g or t
36 <220> FEATURE:
37 <221> NAME/KEY: unsure
38 <222> LOCATION: (447)
39 <223> OTHER INFORMATION: n=a,c,g or t
40 <220> FEATURE:
41 <221> NAME/KEY: unsure
42 <222> LOCATION: (453)
43 <223> OTHER INFORMATION: n=a,c,g or t
44 <220> FEATURE:
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C--> (line 5)

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 45 <221> NAME/KEY: unsure
 46 <222> LOCATION: (462)
 47 <223> OTHER INFORMATION: n=a,c,g or t
 48 <220> FEATURE:
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 50 <222> LOCATION: (489)..(491)
 51 <223> OTHER INFORMATION: n=a,c,g or t
 52 <220> FEATURE:
 53 <221> NAME/KEY: unsure
 54 <222> LOCATION: (500)
 55 <223> OTHER INFORMATION: n=a,c,g or t
 56 <400> SEQUENCE: 1
 57      ctataattgg cgcaaatatg gacagaagca tgtcaaggga agtgaaaatc ctagaagtta   60
 58      ttacaagtgc actcatccta attgtgaagt taaaaagcta ttagagcgtt cgcttgatgg  120
 59      tcagattact gaagttgttt ataaagggca tcataatcat cccaagcccc aaccaaatag  180
 60      aaggttagct gctggtgcag ttccttcaag ccaggctgaa gaaagatacg atggtgtggc  240
 61      acctattgaa gacaaacctt caaatattta ttccaacctc tgtaaccaag cacattcagc  300
 62      tggcatggtt gataatgttc cgggtccagc aagtgatgat gatgttgatg ctggaggtgg  360
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W--> 63   aagacccnac cctgggggga tgactcnaat gatgatgatg acttnggnct caaaaacgca 420
W--> 64   aggaaaatgg aatctgccgg gtatncnatg ccnggctttg antggggtaa accaaatccc 480
W--> 65   ggagcccnn nttccttttn aaaaactgtt tt   512
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 67 <210> SEQ ID NO: 2
 68 <211> LENGTH: 170
 69 <212> TYPE: PRT
 70 <213> ORGANISM: Zea mays
 71 <220> FEATURE:
 72 <221> NAME/KEY: unsure
 73 <222> LOCATION: (123)
 74 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
 75 <220> FEATURE:
 76 <221> NAME/KEY: unsure
 77 <222> LOCATION: (129)
 78 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
 79 <220> FEATURE:
 80 <221> NAME/KEY: unsure
 81 <222> LOCATION: (135)..(136)
 82 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
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 85 <222> LOCATION: (148)..(149)
 86 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
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 89 <222> LOCATION: (151)
 90 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
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 94 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
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 96 <221> NAME/KEY: unsure
 97 <222> LOCATION: (163)..(164)
 98 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
 99 <220> FEATURE:
100 <221> NAME/KEY: unsure
101 <222> LOCATION: (167)
102 <223> OTHER INFORMATION: Xaa = ANY AMINO ACID
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104      Tyr Asn Trp Arg Lys Tyr Gly Gln Lys His Val Lys Gly Ser Glu Asn
105       1               5                  10                  15
106      Pro Arg Ser Tyr Tyr Lys Cys Thr His Pro Asn Cys Glu Val Lys Lys
107                      20                  25                  30
108      Leu Leu Glu Arg Ser Leu Asp Gly Gln Ile Thr Glu Val Val Tyr Lys
109                      35                  40                  45
110      Gly His His Asn His Pro Lys Pro Gln Pro Asn Arg Arg Leu Ala Ala
111               50                  55                  60
112      Gly Ala Val Pro Ser Ser Gln Ala Glu Glu Arg Tyr Asp Gly Val Ala
113       65                  70                  75                  80
114      Pro Ile Glu Asp Lys Pro Ser Asn Ile Tyr Ser Asn Leu Cys Asn Gln
115                      85                  90                  95
116      Ala His Ser Ala Gly Met Val Asp Asn Val Pro Gly Pro Ala Ser Asp
117                     100                 105                 110
```

W--> 118   Asp Asp Val Asp Ala Gly Gly Gly Arg Pro Xaa Pro Gly Gly Met Thr
```
119                     115                 120                 125
```
W--> 120   Xaa Met Met Met Met Thr Xaa Xaa Ser Lys Thr Gln Gly Lys Trp Asn
```
121                     130                 135                 140
```
W--> 122   Leu Pro Gly Xaa Xaa Cys Xaa Ala Leu Xaa Gly Val Asn Gln Ile Pro
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123      145                 150                 155                 160
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W--> 124   Glu Pro Xaa Xaa Pro Phe Xaa Lys Leu Phe
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125                     165                 170
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128 <211> LENGTH: 717
129 <212> TYPE: DNA
130 <213> ORGANISM: Zea mays
131 <220> FEATURE:
132 <221> NAME/KEY: unsure
133 <222> LOCATION: (11)
134 <223> OTHER INFORMATION: n=a,c,g or t
135 <220> FEATURE:
136 <221> NAME/KEY: unsure
137 <222> LOCATION: (15)
138 <223> OTHER INFORMATION: n=a,c,g or t
139 <220> FEATURE:
140 <221> NAME/KEY: unsure
141 <222> LOCATION: (610)
142 <223> OTHER INFORMATION: n=a,c,g or t
143 <220> FEATURE:
144 <221> NAME/KEY: unsure
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145 <222> LOCATION: (640)
146 <223> OTHER INFORMATION: n=a,c,g or t
147 <220> FEATURE:
148 <221> NAME/KEY: unsure
149 <222> LOCATION: (653)
150 <223> OTHER INFORMATION: n=a,c,g or t
151 <220> FEATURE:
152 <221> NAME/KEY: unsure
153 <222> LOCATION: (680)
154 <223> OTHER INFORMATION: n=a,c,g or t
155 <220> FEATURE:
156 <221> NAME/KEY: unsure
157 <222> LOCATION: (692)
158 <223> OTHER INFORMATION: n=a,c,g or t
159 <220> FEATURE:
160 <221> NAME/KEY: unsure
161 <222> LOCATION: (703)
162 <223> OTHER INFORMATION: n=a,c,g or t
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165     tctacccagc tgccctgctc tgcgtcgctc gccatggcgt cctccacggg gagcttggag 120
166     cacgggggt tcacgttcac gccgccgccc ttcatcacct ccttcaccga gctgctctcc 180
167     ggcgcagggg acatgctagg agccggcgcc gatcaggagc ggtcgtcgcc gagggggctg 240
168     ttccaccgcg cgccaggggg cgtgcccaag ttcaagtcgg cgcagcctcc cagcctgccc 300
169     atctcgccgc cgcccatgtc gccttcctcc tacttcgcca tcccgcccgg gctcagcccc 360
170     gccgagctgc tcgactcgcc cgtcctgctc cactcgtcct ccaacatcct ggcgtctccc 420
171     accactggcg ccatcccggc gcagaggttc gactggaaga aggccgccga cctgatcgcg 480
172     tctcagtctc agcaagacgg cgacagccgg gctgccgccg ccggcttcga cgacttctcc 540
173     ttcacacggg caccttcaac gccgtgcgcg cgcacacgac gacgacgtcc ttaccttcat 600
174     gaagaagaan gtggagaggg ccctggccga cgggcgcatn aacgcaaaat cgngtacaaa 660
175     ggcgcggcac aaacaaccn aagccggttg tncacgcgcc ggnaacttaa ttccgga     717
177 <210> SEQ ID NO: 4
178 <211> LENGTH: 150
179 <212> TYPE: PRT
180 <213> ORGANISM: Zea mays
181 <400> SEQUENCE: 4
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184     Pro Pro Pro Phe Ile Thr Ser Phe Thr Glu Leu Leu Ser Gly Ala Gly
185                     20                  25                  30
186     Asp Met Leu Gly Ala Gly Ala Asp Gln Glu Arg Ser Ser Pro Arg Gly
187             35                  40                  45
188     Leu Phe His Arg Gly Ala Arg Gly Val Pro Lys Phe Lys Ser Ala Gln
189         50                  55                  60
190     Pro Pro Ser Leu Pro Ile Ser Pro Pro Pro Met Ser Pro Ser Ser Tyr
191     65                  70                  75                  80
192     Phe Ala Ile Pro Pro Gly Leu Ser Pro Ala Glu Leu Leu Asp Ser Pro
193                     85                  90                  95
194     Val Leu Leu His Ser Ser Ser Asn Ile Leu Ala Ser Pro Thr Thr Gly
```

```
195                  100              105              110
196        Ala Ile Pro Ala Gln Arg Phe Asp Trp Lys Lys Ala Ala Asp Leu Ile
197            115              120              125
198        Ala Ser Gln Ser Gln Gln Asp Gly Asp Ser Arg Ala Ala Ala Ala Gly
199            130              135              140
200        Phe Asp Asp Phe Ser Phe
201        145              150
203 <210> SEQ ID NO: 5
204 <211> LENGTH: 1961
205 <212> TYPE: DNA
206 <213> ORGANISM: Oryza sativa
207 <400> SEQUENCE: 5
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209        tcgctagctc gcttgcttgc tggctgagct gtggtacgct cgccatggcg tcctcgacgg  120
210        gggggttgga ccacgggttc acgttcacgc cgccgccgtt catcacgtcg ttcaccgagc  180
211        tgctgtcggg gggcggtggg gacctgctcg gcgccggcgg tgaggagcgc tcgccgaggg  240
212        ggttctccag aggcggagcg agggtgggcg gcggggtgcc caagttcaag tccgcgcagc  300
213        cgccgagcct gccgctctcg ccgccgccgg tgtcgccgtc gtcctacttc gccatcccgc  360
214        cggggctcag ccccaccgag ctgctcgact ccccgtcct cctcagctcc tccatatct  420
215        tggcgttccc gaccaccggt gcaatcccgg ctcagaggta cgactggaag gccagcgccg  480
216        atctcatcgc ttctcagcaa gatgacagcc gcggcgactt ctccttccac accaactccg  540
217        acgccatggc cgcgcaaccg gcctctttcc cttccttcaa ggagcaagag cagcaagtgg  600
218        tcgagtcgag caagaacggc gccgccgccg cgtcgagcaa caagagcggc ggcggcggga  660
219        acaacaagct ggaggacggg tacaactgga ggaagtacgg gcagaagcag gtgaagggga  720
220        gcgagaaccc gaggagctac tacaagtgca cctacaacgg ctgctccatg aagaagaagg  780
221        tggagcgctc gctcgccgac ggccgcatca cccagatcgt ctacaagggc gcacacaacc  840
222        accccaagcc gctctccacc gccgcaacgc ctcttccggc tccaccgccg ccgcctgcgc  900
223        cgacgacctc gcggcgcccg gcgcgggcgc ggaccagtac tccgccgcga cgcccgagaa  960
224        ctcctccgtc acgttcggcg acgacgaggc cgacaacgca tcgcaccgca gcgagggcga 1020
225        cgagcccgaa gccaagcgct ggaaaggagg atgctgacaa cgaggcagc tccggcggca 1080
226        tgggcggcgg cgccggcggc aacccggtgc gcgagccgag gcttgtggtg cagacgctga 1140
227        gcgacatcga catcctcgac aacggcttcc ggtggaggaa gtacggccag aaggtcgtca 1200
228        agggcaaccc caacccaagg agctactaca agtgcacgac ggtgggctgc ccggtgcgga 1260
229        agcacgtgga gcgggcgtcg cacgacacgc gcgccgtgat caccacctac gagggcaagc 1320
230        acaaccacga cgtcccggta cggccgcggc ggcggcggcg gacgcgcccc ggcgccggcg 1380
231        tcgcctacgg ctgggggcga tccgggccga cggacgtcgc cgccgcccag caggggccct 1440
232        acaccctcga gatgctcccc aaccccgccg gcctctacgg cggctacggc gccggcgccg 1500
233        gcggcgccgc gttcccgcgc accaaggacg agcggcggga cgacctgttc gtcgagtcgc 1560
234        tcctctgcta gtcgagccga gccgagccga gctgagctgg gccccacatc ccctgctcg 1620
235        ccacgtggcg tattttcgcc tcgccgtata cgtacggccg tatagcgtac gtatacacgc 1680
236        tcgcacgccc tgcccaacac ggcaatacac acatacatac tctcgtacac acgtagtagc 1740
237        atacatatac agtatagtag gtggtagtgg tagctagcta gggagtgaga tccaatttgt 1800
238        tgattcgttg caggccactg ccacgtgggc cacaccggaa acagtacacg cgtatacacc 1860
239        acacttggga tacgcgtacg tacgcacatg tacacgtagt tttgtgcctt tgtaactgct 1920
240        gagagacagg tcaaataaga ctgatgaatt tttcatttct t               1961
242 <210> SEQ ID NO: 6
243 <211> LENGTH: 488
244 <212> TYPE: PRT
245 <213> ORGANISM: Oryza sativa
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/05/2002
PATENT APPLICATION: US/09/890,811B   TIME: 15:37:24

    Input Set : N:\Crf3\06122002\I890811A.raw
    Output Set: N:\CRF3\07052002\I890811B.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 368,387,405,408,445,447,453,462,489,490,491,500
Seq#:2; Xaa Pos. 123,129,135,136,148,149,151,154,163,164,167
Seq#:3; N Pos. 11,15,610,640,653,680,692,703

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:14; Line(s) 743

PATENT APPLICATION: US/09/890,811B   TIME: 15:37:24

            Input Set : N:\Crf3\06122002\I890811A.raw
            Output Set: N:\CRF3\07052002\I890811B.raw

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L:5 M:270 C: Current Application Number differs, Wrong Format
L:63 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:360
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:420
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:480
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:112
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:128
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:144
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:160
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:600
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:660
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